

**Date of birth**

11/04/1995

Contacts

giuseppebarbalace95@gmail.com

Skype:giuseppe.barbalace95

Giuseppe Barbalace

Information Technology Engineer

About me Passionate about science, engineering applications in electronics manufacturing and in biological field.

Working Experience

04/2022-ongoing, Istituto Italiano di Tecnologia, Center for Nano Science and Technology(Milan[MI])

Guest Student

Project: Manufacturing of printed UV-sensors

05/2020 - ongoing, Politecnico di Milano, Dipartimento di Elettronica, Informazione e Bioingegneria (Milan[MI])

Doctorate in Information Technology, Electronics area

Ph.D. title: *3D Printing of materials of relevance for the microelectronic industry*

In collaboration with: STMicroelectronics

Education

2017-2019, Politecnico di Milano (Milan[MI])

Master Degree in Biomedical Engineering, Technology for Electronics

Degree score: 102 on 110

Thesis title: *Electrical Impedance Spectroscopy for breast tumor detection and analysis*

Collaborations: Measurements at Ente Ospedaliero Cantonale in Lugano (Switzerland)

2014-2017, Politecnico di Milano(Milan[MI])

Bachelor in Biomedical Engineering

Thesis title: *Evaluation of neuromotor coordination in post-ictus patients through muscular synergies analysis*

2009-2014, Scientific High School "Stefano Patrizi" (Cariati[CS])

Scientific High School diploma

Technical competencies

Performed activities

- Dimensional, electronic and optoelectronic measurements of micrometer devices
- Employment of traditional (lithography) and innovative (printing) techniques for electronic circuit manufacturing
- Softwares integration to implement algorithms for computations, representation and standardization of data
- Implementation of electromagnetic simulations
- Management of conductive inks, substrates and solvents
- Reading and comprehension of scientific papers and technical manuals
- Preparation and exposition of slides

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Utilized devices

- Printers for micrometric manufacturing
- Bench instrumentations
- Heidelberg Maskless Aligner 100
- Profilometer KLA Tencor P-17
- Semiconductor Parameter Analyzers
- Optical and scanning electron microscopes
- FPGA PSoC 4.2

Programming languages

Languages with more advanced competencies

- Java
- Matlab

Languages with basilar knowledge and competencies

- C
- C++
- Python

Main utilized softwares

- ADS
- Arduino
- Ansys
- COMSOL
- KLayout
- LaTeX
- Matlab
- Microsoft Office
- Processing
- PSoC Creator 4.2
- R
- Solidworks

Logistic and communication skills

- Familiarity in moving in ISO 06-ISO 08 laboratories and in handling instrumentations with care
- Resourcefulness in a project organization and time management
- Meticulousness and order in opinions and ideas exposition, both spoken and written
- Patience and great capability of listening
- Flexibility in adapting team organization according team needs

Other competencies**Spoken languages**

Mother tongue:Italian

Other languages:

- English: C1 level in reading, B2 in listening and speaking
- French: B1 level, studied at high school

Titles

Information Engineer, State exam carried out and passed in 2021 **Driving**

licences

AM and B

Musical diplomas

Pre-academic certificate C-level in Classic Guitar in 2014

Diploma in Music theory and Solfeggio obtained in 2011

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Interests

Professional

- Informed on electronics materials features, on their manufacturing techniques and on their commercial availability
- Informed on 3D printing techniques and on micrometric manufacturing
- Readings of more recent articles concerning biology
- Informed on used software and hardware in medical field

Personal

- Music of all genres, especially progressive rock
- Films and Books, especially the old ones
- Football, preferably five-a-side football
- Gym and jogging

I authorize the use of my personal data in accordance to the GDPR 679/16 (European regulation on the protection of personal data).

I authorize the Curriculum Vitae publication on the institutional website of Politecnico di Milano (section Amministrazione Trasparente) according to D. Lgs n. 33 of 14 march 2013 (e s.m.i.).